Building Standards Committee

DSA Advisory Board Final Minutes of Meeting Thursday, February 17, 2005

California Community Colleges Building 1102 Q Street, 5th Floor, Conference Room A Sacramento, California

Committee Members Present

Thomas Shih, Chair
Bob Dyson
Kennith Hall
Pete Peterson
Art Ross (arrived at 12:45 p.m.)
Lowell Shields (arrived at 10:55 a.m.)

Committee Members Absent

Gale Bate, Vice Chair Paul Beyl Mike Modugno David Smith Jim Ward

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DSA Staff Present

Mary Ann Aguayo, Executive Director, DSA AB Dennis Bellet David Casey Susan Georgis Elizabeth Schroeder Chip Smith Elena Tarailo

Others Present

Larry Foley, Trus Joist Jack McMullen, California Geological Survey

1 I. <u>Call to Order and Introductions</u>

- Committee Chair Thomas Shih called the meeting to order at 10:00 a.m. and participants
 took turns introducing themselves.
- 5 Mr. Shih noted a quorum was not present, so the committee could take no formal actions or votes.

II. Review of Prior Meeting Minutes & Follow-Up Items

- 9 Mr. Shih drew attention to the minutes of the April 21, 2004 committee meeting and welcomed comments. Committee members proposed no changes or corrections.
- Ms. Elena Tarailo stated that the Board already approved the minutes at its last quarterly meeting.
- Ms. Mary Ann Aguayo drew attention to the list of follow-up items compiled by the staff. Mr.
- 16 Shih observed that most of the issues would be addressed as part of later agenda items.

18 A. NFPA 5000 Code Development Update

- 19 Mr. Chip Smith reported that at the January hearing before the Building Standards
- 20 Commission, DSA informed the Building Standards Commission that the code development
- 21 process was at a standstill, pending resolution of copyright issues and receipt of complete

drafts of proposed amendments from NFPA staff. After hearing similar testimony from other agencies, the Building Standards Commission directed the Coordinating Council to reconvene and arrive at a recommendation regarding how to proceed.

Mr. Smith said the Coordinating Council met on Wednesday, February 9, DGS elaborated on the obstacles that were discussed at the Commission hearing. The next meeting is scheduled for Tuesday, February 22, and an agenda has been posted on the Building Standards Commission's Website. Mr. Smith observed that the meeting will be a fact-finding session where state agencies and others can express views and provide information pertaining to various obstacles that have been identified. He noted that besides the copyright issue, for example, there may be issues pertaining to coordination with other codes and resource constraints.

Mr. Smith said DSA identified lack of resources as another major obstacle at the Building Standards Commission's January hearing. He explained that DSA has experienced a 15 to 20 percent increase in workload over the past 12 months, so resources are much more limited. DSA informed the Building Standards Commission that because of staffing resource limitations, the timeline would have to be adjusted accordingly.

Mr. Smith commented that DSA also has concerns about economic or fiscal impacts on DSA and its constituents, including school districts, design professionals, the construction industry, and product manufacturers. The next Coordinating Council hearing, therefore, is intended to provide an opportunity for input on those issues. Mr. Smith said a follow-up meeting will probably be held before the March 16 Building Standards Commission meeting.

Mr. Smith noted DSA staff will continue to articulate its current concerns regarding staff resources, dragging out the process to the point the provisions are no longer current, resolution of copyright issues, and possible fiscal and economic impacts. Mr. Smith added that concrete data regarding cost impacts on school districts, design professionals, the construction material, product manufacturers, and others would be helpful for the Coordinating Council, and he welcomed suggestions from committee members.

Mr. Smith stated that DSA is striving for a code that is both cost-effective and doable, without requiring hundreds of pages of amendments. He noted the staff determined adopting the IBC would require fewer amendments than in the current code, so the estimated workload associated with adopting that code would be one sixth or one eighth of what the NFPA code requires. Mr. Smith added that in order to be effective and ensure the new provisions are still current at the time of adoption, the entire code adoption process should take no more than 12 to 18 months.

Mr. Kennith Hall asked about the staff of the copyright issues. Mr. Smith responded that NFPA wrote a letter last May indicating they were in the process of obtaining assurances that the provisions could be used, but there has been no news since then.

- 1 Mr. Bob Dyson asked about the composition of the Coordinating Council. Mr. Smith
- 2 explained that the Coordinating Council is a statutory body under the Building Standards
- 3 Commission, composed of appointed representatives from each of the four code-adopting
- 4 agencies. Mr. Smith added that he was representing DSA on the Coordinating Council,
- 5 and there are people from OSHPD, State Fire Marshal's Office, Housing and Community
- 6 Development, California Energy Commission, and Department of Health Services.

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- 8 Mr. Shih noted some state government reorganization proposals call for elimination of the
- 9 Building Standards Commission, and he asked what was likely to happen in that case. Mr.
- Smith stated that he just saw a newspaper headline indicating the governor was backing off
- on his proposal to eliminate 88 boards and commissions. He said he believed the Building
- 12 Standards Commission was included in that group. Mr. Smith added that until there are
- 13 changes, DSA has to operate under the current rules.

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B. Stakeholder Review Process Update

- 16 Mr. Smith said DSA would like to integrate the Building Standards Committee into
- 17 developing the stakeholder review process. He noted the NFPA package is quite
- 18 complicated, so DSA can use help in dealing with this formidable task.

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- 20 Mr. Smith commented that the staff needs to get a better handle on the scope of the
- 21 proposed amendments. Because of the substantial differences in the number of
- 22 amendments required for the two model codes, the amount of staff work required could
- 23 vary considerably, depending on what code is eventually adopted. For that reason, he
- added, it may be premature to develop a process now.

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- Mr. Hall noted it might be possible to develop a stakeholder process now that would work
- 27 regardless of how many stakeholders are involved.

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- 29 Mr. Smith said DSA staff plans to identify amendments that should be continued, modified,
- or deleted, and then begin drafting the provisions that need to be added. He noted the staff
- 31 has particular concerns about diluting California's Current Zone 3 seismic standards, and
- 32 there are probably many stakeholders who would want to weigh in on that issue.

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- 34 Mr. Smith asked if the Building Standards Committee wanted to serve as a forum for
- 35 stakeholder meetings. He noted this could help expedite the process and compress the
- 36 timeline to a six- to eight-month period.

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- 38 Mr. Hall asked about DSA's estimated timeline for completing the code adoption process
- 39 for NFPA 5000. Mr. Smith estimated DSA's review timeline at close to three years; he
- 40 estimated the amendment packet for the IBC would take 12 to 15 months. He added that
- 41 the committee might need to meet monthly for a while to review and provide input on the
- 42 amendments as they are developed.

1 Mr. Smith noted the Building Standards Commission could make a decision at its May meeting if no action is taken at the March meeting.

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After some discussion, committee members agreed to hold off on this issue until more is known about the future direction of the code adoption process.

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C. 2004 Code Supplement Update

- Mr. Smith reported that after a meeting last summer, the staff developed proposed changes to the building code recommended for adoption and publication as a supplement. He noted DSA developed a package last August, and he drew attention to the "Express Terms"
- 11 document in the meeting packet.

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- 13 Mr. Smith said there are significant changes to Chapter 23, the wood chapter, on Pages 27
- through 38. He noted adoption of the 2001 NDS wood design standards is proposed. Mr.
- 15 Smith commented that the proposed provisions were developed after considerable
- dialogue, and they represent the consensus of the participants. He pointed out that
- adopting the NDS standards reduces the number of required amendments from 35 in the
- 18 current code down to 12.

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- 20 Mr. Smith drew attention to a few minor changes in the glu lam section, Pages 34 and 35.
- 21 He noted the changes in moisture requirements are consistent with national standards and
- their inspection provisions. He said use of a lag bolt was eliminated, but the other
- 23 language remained the same.

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Mr. Smith reported that the Building Standards Commission's Code Advisory Committee reviewed and approved the package two weeks earlier. He said the provisions will be subject to a 45-day public comment period beginning in May, and the Commission could formally adopt them near the end of the year. In that case, the provisions would go into effect as a supplement to the 1997 code in mid-2006. Mr. Smith added that DSA does not expect the package to generate any controversy.

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32 Mr. Smith welcomed comments on the package from committee members. He said DSA would like to receive all comments by the end of June.

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D. Glu Lam Beam Continuous Inspection Requirement Update

Mr. Shih proposed deferring discussion of this item until Mr. Art Ross arrived, and committee members agreed.

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E. Plumbing & Mechanical Code Packages

- 40 Mr. Smith noted the proposed package, reviewed by the committee last April, adopts the
- 41 2003 edition of the Uniform Mechanical Code and Uniform Plumbing Code. Mr. Smith said
- 42 the Code Advisory Committee approved the package, with just a few amendments, one of

- 1 which entailed accepting a recommendation from Robert Freedlander to not adopt the AL
- 2 PEX/AL products.

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- 4 Mr. Smith said that the origin and purpose of some of the current Mechanical Code and
- 5 Plumbing Code amendments is unclear, so more research needs to be done before
- 6 proposing any changes. He suggested developing clean-up provisions at some point in the
 - future for both the Mechanical Code and Plumbing Code. He said other issues on which
- 8 the committee's input would be welcome include whether PEX and AL/PEX should be
- 9 allowed, ABS, PVC piping, and Table 4-1, regarding plumbing fixtures.

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11 Mr. Shih welcomed Mr. Lowell Shields to the meeting at 10:55 a.m.

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III. New Items

14 A. Proposed Stop Work Order & Procedure

- 15 Mr. Dennis Bellet noted that DSA adopted regulations last year providing for issuance of
- stop work orders, and the staff developed an administrative procedure for stop work orders.
- 17 He said DSA's legal counsel recommends refining the provisions regarding what happens if
- people do not comply. For example, he observed, there may be criminal penalties for
- 19 people who willingly violate stop work orders. Mr. Bellet suggested leaving these issues to
- 20 legal experts; he welcomed the committee's input on the proposed process described in IR
- 21 A-9.

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- 23 Mr. Bellet clarified that stop work orders will be issued by DSA regional offices, and all stop
- work orders must be signed by the regional manager and duly posted.

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- 26 Mr. Hall asked if violation of a stop work order would be a misdemeanor or felony. Mr.
- 27 Bellet said the statute designates a violation is a felony. Mr. Hall pointed out that
- 28 misdemeanors have to be committed in the presence of the regional office staff, while a
- 29 felony does not have to meet that requirement. He noted filing a criminal complaint with the
- 30 local district attorney or attorney general could result in a court order to stop work.

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- 32 Mr. Shih said he recalled past cases in which district attorneys were reluctant to prosecute
- 33 misdemeanors, so the local jurisdiction began issuing infractions. Inspectors were trained
- to issue citations and testify in court. Mr. Hall commented that a person can simply pay a
- 35 fine for an infraction without showing up, but a misdemeanor requires a court appearance.

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- 37 Mr. Shih noted it might be possible to develop a progressive system beginning with
- 38 infractions and progressing to misdemeanors. He said he was a bit concerned about the
- 39 ramifications of calling violations felonies.

- 41 Mr. Hall stated that another factor to be considered is whether citations need to be issued
- by someone with a peace officer status. He noted that status provides the officer with a
- 43 level of immunity in later lawsuits.

1 2 Mr. Bellet clarified that the proposed process entails first issuing a notice to comply, with a specific description of the violation, the necessary correction, and the time deadline to 3 4 avoid a stop work order. 5 6 Mr. Shih said some jurisdictions impose fines of double to ten times the fees in cases 7 where construction starts before proper permits are issued. He asked if DSA is proposing 8 any such provisions. Mr. Bellet commented that legal counsel will be reviewing the fines 9 and penalties provisions. 10 11 Mr. Hall suggested including a statement on notification forms saying: "Failure to comply 12 may subject you to penalties prescribed by law." Mr. Bellet drew attention to the language 13 on the left side of proposed DSA Form 351. Mr. Hall recommended changing the sentence to warn recipients that failure to comply could result in more than "a fine upon conviction." 14 15 16 Mr. Hall noted the Fire Code has a section advising that the local police department will 17 assist in enforcement efforts. He suggested including something like that. 18 19 Mr. Pete Peterson recommended using simpler language in place of "contravention"; he proposed "violation" instead. Committee members agreed that "violation" would be better. 20 21 22 Mr. Peterson asked if the stop work order could apply only to a portion of a project or 23 building. He suggested clarifying the cited portion versus the entire project. Committee 24 members noted the language speaks in terms of "area affected." Mr. Bellet stated that 25 DSA interprets the stop work order as applying to the whole project. He said the only work 26 that can proceed from that point is the recommended corrective action. 27 28 Mr. Hall commented that it might be better to have citations signed and issued by the field 29 engineers who observe the violation, and then have them approved by regional managers. 30 31 Mr. Dyson noted the introductory paragraph refers to plan review, and he questioned 32 whether IR A-9 was intended to apply to plan review. Mr. Bellet agreed that language 33 needs to be modified. 34 35 Referring the last paragraph on Page 2 and the first paragraph on Page 3, Mr. Hall 36 recommended referring to a staff position rather than naming Dennis Bellet. Other 37 committee members concurred. 38 39 Mr. Bellet thanked committee members for their input. He said he hoped to have more 40 information on the legal issues by the next meeting. 41

42 Mr. Dyson observed that DSA will probably be seeing more design-build school projects. 43

He recommended keeping that in mind with IR A-9 instead of targeting just design

professionals. He noted the scope should be broad enough to cover all that DSA encompasses.

Mr. Bellet acknowledged that the staff will have to be trained before implementing the stop work order procedures. Mr. Hall recommended finding out whether peace officer status is necessary for some enforcement measures.

B. Modular Building Ordinary Moment Frame Code Change Update

Mr. Chip Smith explained that regardless of which building code is adopted, the standard upon which it is based will prohibit an ordinary steel moment frame for a two-story modular building, a typical structure on many school campuses in California. He said the frames for these buildings are constructed in factories and transported to the site where the buildings are assembled. He clarified that these structures are just modular frames, not relocatable buildings. Mr. Smith noted typical buildings are 12 feet by 40 feet, and they are placed side-by-side or stacked.

Mr. Smith said there are eight major manufacturers of steel frames, and most are members of the School Facilities Manufacturers Association. He added that the association recognizes that the next code will create a problem, so DSA and association representatives have been meeting regularly to arrive at a proposal for an amendment.

Mr. Smith advised that the long-standing prohibition of steel frames was based on a type of ordinary frame that uses large, wide-flange steel sections that did not perform well in the Northridge earthquake. Modern modular frames typically use tube steel sections and small members with relatively small welds, so the prohibition may no longer be appropriate. Mr. Smith added that the staff has been unable to find evidence showing the steel frames are unsafe, and this type of steel frame was not considered when the latest NEHRP standards were developed. He pointed out that concrete data will be needed to support a rationale for changing current code requirements.

Mr. Bellet noted DSA wants to avoid any perception that current code requirements are being weakened in any way.

Mr. Shields emphasized the need for factual data to support the code requirements, and committee members agreed. Mr. Smith said the staff is in the fact-finding stage at this point.

Mr. Dyson suggested conducting tests on the new UC San Diego shake table. Mr. Shields recommended contacting Mr. Bill Staehlin for assistance.

- Mr. Hall expressed concern that amending the code could weaken the current
- requirements. Mr. Smith explained that because this type of frame was not considered in
- the current code, DSA was considering whether it would be appropriate to draft new
- 44 provisions.

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2 At 11:45 a.m., the committee recessed for lunch. Mr. Shih reconvened the meeting at

3 12:45 p.m. He noted a quorum was present, with the arrival of Mr. Ross during the lunch

4 break.

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II.A. NFPA 5000 Code Development Update (Continued)

7 Mr. Smith welcomed assistance from committee members and DSA constituents in

- 8 providing information to the Coordinating Council regarding possible economic impacts of
- 9 adopting NFPA 5000. He said the Coordinating Council will be meeting on Tuesday,
- 10 February 22, at 10:00 a.m., in the East End Auditorium. He distributed copies of the
- 11 meeting agenda.

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13 Mr. Hall observed that just the cost of purchasing all 16 volumes of the code books is a

major problem for some local jurisdictions. Mr. Shields pointed out that local jurisdictions

also need to purchase the reference standards.

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Mr. Smith said DSA plans to inform the Coordinating Council that the workload to create

- amendments for NFPA 5000 will be roughly eight times the amendments required for the
- 19 IBC. Those changes from the model also represent specialized training needs, both for
- 20 DSA staff and constituents. Mr. Smith observed that drafting so many amendments poses
- 21 a substantial burden for DSA, increases opportunities for errors, and slows down the plan
- 22 approval process.

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24 Mr. Shih expressed concern about the extensive amount and high cost of staff training.

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Mr. Smith encouraged constituents to send economic impact information to Acting State

Architect Richard Conrad.

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II.D. Glu Lam Beam Continuous Inspection Requirement Update (Continued)

- 30 Mr. Chip Smith reported that DSA has been discussing this issue for about a year, but
- 31 additional research needs to be done. He said the issue came to DSA's attention when
- 32 APA complained that they were losing market share because of the current code prohibits.
- 33 Mr. Smith noted DSA has asked inspection agencies for their input, and he drew attention
- to the January 13 letter from American Plywood Association (APA) withdrawing the request
- to waive special inspection of glu lam beams. In spite of the letter, he recommended that
- 36 DSA continue to investigate the issue of whether continuous inspection requirements for
- 37 glu lam beams should be loosened.

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Mr. Smith advised that DSA's ten-year-old inspector exam is out of date, and there are no

40 provisions addressing this need. He recommended a comprehensive review of the entire

DSA program for qualifying special inspectors for glu lam inspection, current requirements

and amendments, and possible changes. Mr. Smith reported that representatives from an inspection agency will be visiting DSA offices the next week to provide information.

Mr. Dyson asked how glu lams in school buildings were different from other buildings; for example, he asked if there were tighter restrictions as far as finger joints, spacing, and tension zones. Mr. Smith said he was not aware of any differences. He noted the Field Act requires "continuous inspection" rather than "periodic inspection."

Mr. Ross expressed interest in attending the meeting with the inspection agency representative. Mr. Smith said the meeting is scheduled for Thursday, February 24, at 1:30 p.m.

Mr. Ross commented that he believed there were some unique aspects of school construction. He noted glu lams can fail if the load is reduced to a bare minimum. He pointed out the purpose of DSA's plan-check and inspection is to achieve an end product that is reasonably safe for California's school children. Mr. Ross recommended focusing on ways of specifying acceptable safety parameters.

Mr. Dyson agreed, and said he was more concerned about preventing catastrophic failures
 than defining a 16-inch depth limitation.

19 Mr. Ross said he disagreed with the entire premise of APA's January 13 letter.

Mr. Smith noted this issue has important ramifications for the special inspector certification program that should be addressed. He recommended looking at other issues like proof load and spacing as well. Mr. Smith said the staff will continue gathering facts and updating the testing requirements for special inspectors.

IV. <u>Meeting Summary/Next Steps</u>

Mr. Shields encouraged the committee to reassess its mission and identify priority issues for future meetings. He noted code adoption issues have taken most of the committee's attention in recent months, so it might be wise to review and follow up on issues identified before.

Mr. Hall recommended that the committee continue looking at due process issues involved in stop work orders. Mr. Bellet said he would provide an update at the next meeting.

Ms. Aguayo noted the staff's list of follow-up items identifies major issues discussed by the committee so far. Committee members asked for status reports on these items at the next meeting.

Mr. Shih encouraged committee members to contact him with items they wanted to include on future meeting agendas.

1 Mr. Peterson observed that there are code provisions setting thresholds for projects subject 2

to DSA review, and those figures are supposed to be updated annually. He suggested

3 looking at this issue.

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Mr. Shields noted DSA staff had talked about updating the IR process to make sure all the IR's are eventually incorporated into code amendments or discontinued. He added that it might be prudent to wait on this task until the state decides which model code will be adopted.

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٧. **Public Comments/New Business**

11 There were no members of the public who wished to address the committee.

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- 13 Mr. Bellet said he attended a regional managers meeting earlier that day at which the
- 14 staff's activities were discussed and prioritized. He noted participants came up with a list
- 15 of about 60 different tasks, and the top priorities were: 1) stop work orders; 2) DSA's Policy
- 16 97-10, regarding using of HCD trailers on school sites for up to two years during
- 17 modernization projects; 3) creation of a task force for handling pre-checks and over-the-
- 18 counter approvals; and 4) looking at the use of construction managers. Mr. Bellet
- 19 welcomed committee feedback on these issues.

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21 Mr. Shih proposed talking about these issues at the next committee meeting.

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23 Mr. Bellet noted the regional managers also talked about installing photovoltaic panels on 24 rooftops.

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26 Ms. Aquayo said another area on which DSA needs help is establishing a standard policy 27 providing a public participation process for policies and rulemaking. She added that the 28 staff will be bringing a draft policy to the committee at a future meeting.

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Mr. Peterson asked progress in implementing the *Williams* lawsuit settlement. He noted there are time limits for addressing certain repairs. Mr. Bellet said DSA is working to define what kinds of projects trigger accessibility compliance. Mr. Peterson pointed out there will be structural issues like mold, dryrot, and walkways that also need to be addressed.

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35 Mr. Shields recommended that DSA put together a team of staff people to address 36 pertinent Williams issues and process improvements. He noted DSA will be seeing a huge 37 volume of survey responses over the next year. Mr. Smith welcomed assistance from the 38 committee in this area.

- 40 Mr. Shields observed the first step in implementing *Williams* will be the surveys, which must
- 41 be completed by the end of December, 2005. The second step will be defining the design
- 42 work that needs to be done. Mr. Shields emphasized the importance of having a way of
- 43 responding quickly to complaints.

1 2 Mr. Dyson noted the survey entails looking at every room, filling out an application on the 3 Website, and documenting conditions with photographs and other evidence. He said 4 Williams has a facilities component and a curriculum component, and DSA's primary 5 concern is school facilities. 6 7 Committee members asked the staff to provide an update on *Williams* implementation at 8 the next DSA Advisory Board meeting. 9 10 VI. **Schedule Next Meeting/Adjournment** 11 Mr. Shih proposed determining the date of the next committee meeting at the next quarterly 12 meeting of the DSA Advisory Board, and committee members agreed. Ms. Tarailo noted 13 the quarterly meeting is scheduled for Thursday, April 14. 14 15 Mr. Dyson observed that the Building Standards Commission might not be making a 16 decision on the model code adoption until as late as May. 17 18 There being no further business, Mr. Hall made a motion that the meeting be adjourned. 19 The motion was seconded by Mr. Shields, and the Building Standards Committee meeting 20 was adjourned at 1:37 p.m.